Sequence Listing was accepted.

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217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2009; month=11; day=12; hr=14; min=15; sec=30; ms=864;

Validated By CRFValidator v 1.0.3

Application No: 10583837 Version No: 2.0

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Started: 2009-10-29 16:00:06.848 **Finished:** 2009-10-29 16:00:07.551

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 703 ms

Total Warnings: 1

Total Errors: 0

No. of SeqIDs Defined: 9

Actual SeqID Count: 9

Error code Error Description

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Pro	Glu	Thr	Thr 20	Asp	Leu	Tyr	Cys	Tyr 25	Glu	Gln	Leu	Asn	Asp	Ser	Ser
			20					23					30		
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   35 40 45
Val Tyr Asp Phe Ala Phe Arg Asp Leu Cys Ile Val Tyr Arg Asp Gly
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  50
                              60
Asn Pro Tyr Ala Val Cys Asp Lys Cys Leu Lys Phe Tyr Ser Lys Ile
65 70 75 80
Ser Glu Tyr Arg His Tyr Cys Tyr Ser Leu Tyr Gly Thr Thr Leu Glu
      85 90
Gln Gln Tyr Asn Lys Pro Leu Cys Asp Leu Leu Ile Arg Cys Ile Asn
              105 110
       100
Cys Gln Lys Pro Leu Cys Pro Glu Glu Lys Gln Arg His Leu Asp Lys
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Trp	Lys	His 35	Met	Arg	Leu	Glu	Cys 40	Ala	Ile	Tyr	Tyr	Lys 45	Ala	Arg	Glu
Met	Gly 50	Phe	Lys	His	Ile	Asn 55	His	Gln	Val	Val	Pro 60	Thr	Leu	Ala	Val
Ser 65	Lys	Asn	Lys	Ala	Leu 70	Gln	Ala	Ile	Glu	Leu 75	Gln	Leu	Thr	Leu	Glu 80
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Val	Ser	Leu	Glu 100	Val	Tyr	Leu	Thr	Ala 105	Pro	Thr	Gly	Суз	Ile 110	Lys	Lys
His	Gly	Tyr 115	Thr	Val	Glu	Val	Gln 120	Phe	Asp	Gly	Asp	Ile 125	Суз	Asn	Thr
Met	His 130	Tyr	Thr	Asn	Trp	Thr 135	His	Ile	Tyr	Ile	Cys 140	Glu	Glu	Ala	Ser
Val 145	Thr	Val	Val	Glu	Gly 150	Gln	Val	Asp	Tyr	Tyr 155	Gly	Leu	Tyr	Tyr	Val 160
His	Glu	Gly	Ile	Arg 165	Thr	Tyr	Phe	Val	Gln 170	Phe	Lys	Asp	Asp	Ala 175	Glu
Lys	Tyr	Ser	Lys 180	Asn	Lys	Val	Trp	Glu 185	Val	His	Ala	Gly	Gly 190	Gln	Val
Ile	Leu	Суз 195	Pro	Thr	Ser	Val	Phe 200	Ser	Ser	Asn	Glu	Val 205	Ser	Ser	Pro
Glu	Ile 210	Ile	Arg	Gln	His	Leu 215	Ala	Asn	His	Pro	Ala 220	Ala	Thr	His	Thr
Lys	Ala	Val	Ala	Leu	Gly	Thr	Glu	Glu	Thr	Gln	Thr	Thr	Ile	Gln	Arg

225 230 235 240

Pro Arg Ser Glu Pro Asp Thr Gly Asn Pro Cys His Thr Thr Lys Leu 245 250 255
Leu His Arg Asp Ser Val Asp Ser Ala Pro Ile Leu Thr Ala Phe Asn 260 265 270
Ser Ser His Lys Gly Arg Ile Asn Cys Asn Ser Asn Thr Thr Pro Ile 275 280 285
Val His Leu Lys Gly Asp Ala Asn Thr Leu Lys Cys Leu Arg Tyr Arg 290 295 300
Phe Lys Lys His Cys Thr Leu Tyr Thr Ala Val Ser Ser Thr Trp His 305 310 315 320
Trp Thr Gly His Asn Val Lys His Lys Ser Ala Ile Val Thr Leu Thr 325 330 335
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Leu Pro Ala Arg Arg Ala Glu Pro Gln Arg His Thr Met Leu Cys Met 50 55 60

Cys Cys Lys Cys Glu Ala Arg Ile Glu Leu Val Val Glu Ser Ser Ala

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Asp Asp Leu Arg Ala Phe Gln Gln Leu Phe Leu Asn Thr Leu Ser Phe 85 90 95

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20 25 30

Val Tyr Cys Lys Thr Val Leu Glu Leu Thr Glu Val Phe Glu Phe Ala 35 40 45

Phe Lys Asp Leu Phe Val Val Tyr Arg Asp Ser Ile Pro His Ala Ala 50 55 60

Cys His Lys Cys Ile Asp Phe Tyr Ser Arg Ile Arg Glu Leu Arg His 65 70 75 80

Tyr Ser Asp Ser Val Tyr Gly Asp Thr Leu Glu Lys Leu Thr Asn Thr
85 90 95

Gly Leu Tyr Asn Leu Leu Ile Arg Cys Leu Arg Cys Gln Lys Pro Leu 100 105 110

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             25 30
Gln Ile Gln Tyr Trp Gln Leu Ile Arg Trp Glu Asn Ala Ile Phe Phe
  35 40 45
Ala Ala Arg Glu His Gly Ile Gln Thr Leu Asn His Gln Val Pro
                      60
  50
          55
Ala Tyr Asn Ile Ser Lys Ser Lys Ala His Lys Ala Ile Glu Leu Gln
65 70 75 80
Met Ala Leu Gln Gly Leu Ala Gln Ser Arg Tyr Lys Thr Glu Asp Trp
      85 90 95
Thr Leu Gln Asp Thr Cys Glu Glu Leu Trp Asn Thr Glu Pro Thr His
     100 105 110
Cys Phe Lys Lys Gly Gly Gln Thr Val Gln Val Tyr Phe Asp Gly Asn
 115 120 125
Lys Asp Asn Cys Met Thr Tyr Val Ala Trp Asp Ser Val Tyr Tyr Met
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                           140
  130
Thr Asp Ala Gly Thr Trp Asp Lys Thr Ala Thr Cys Val Ser His Arg
145 150 155 160
Gly Leu Tyr Tyr Val Lys Glu Gly Tyr Asn Thr Phe Tyr Ile Glu Phe
        165 170 175
Lys Ser Glu Cys Glu Lys Tyr Gly Asn Thr Gly Thr Trp Glu Val His
    180 185 190
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Phe Gly Asn Asn Val Ile Asp Cys Asn Asp Ser Met Cys Ser Thr Ser

195 200 205

Asp Asp Thr Val Ser Ala Thr Gln Leu Val Lys Gln Leu Gln His Thr 210 215 220

Pro Ser Pro Tyr Ser Ser Thr Val Ser Val Gly Thr Ala Lys Thr Tyr 225 230 235 240

Gly Gln Thr Ser Ala Ala Thr Arg Pro Gly His Cys Gly Leu Ala Glu \$245\$ \$250\$

Lys Gln His Cys Gly Pro Val Asn Pro Leu Leu Gly Ala Ala Thr Pro $260 \hspace{1.5cm} 265 \hspace{1.5cm} 270 \hspace{1.5cm}$

Thr Gly Asn Asn Lys Arg Arg Lys Leu Cys Ser Gly Asn Thr Thr Pro 275 280 285

Ile Ile His Leu Lys Gly Asp Arg Asn Ser Leu Lys Cys Leu Arg Tyr 290 295 300

Arg Leu Arg Lys His Ser Asp His Tyr Arg Asp Ile Ser Ser Thr Trp 305 310 315

His Trp Thr Gly Ala Gly Asn Glu Lys Thr Gly Ile Leu Thr Val Thr \$325\$ \$330\$ \$335

Tyr His Ser Glu Thr Gln Arg Thr Lys Phe Leu Asn Thr Val Ala Ile 340 345 350

Pro Asp Ser Val Gln Ile Leu Val Gly Tyr Met Thr Met 355 360 365

<210> 7 <211> 35 <212> PRT

<213> Human papillomavirus type 16

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20 25 30

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